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Shotcrete

31 32 33

**Shotcrete Soil Slope
Stabilization**

31 33 33

**Shotcrete Rock Slope
Stabilization**

31 74 19

Shotcrete Tunnel Lining

MasterRoc[®] SA 430

Liquid High-Performance Sprayed Concrete Accelerator for Wet-Mix Spraying

Description

MasterRoc SA 430 admixture is a high-performance shotcrete accelerator used mainly in the wet spraying process, but can also be used in the dry spraying process. MasterRoc SA 430 admixture is a liquid whose dosage can be varied to the desired setting and hardening times.

Applications

Recommended for use in:

- Tunnelling and mining
- Temporary support
- Permanent support
- Final lining
- Slope stabilization
- Repairs of concrete structures

Features

- Faster setting and higher early strengths
- Low consumption
- Easy to mix into the concrete, even at low temperatures
- Low viscosity

Benefits

- Produces quality shotcrete
- Improves adhesion and surface bond
- Higher ultimate strengths and more durable shotcrete compared with traditional accelerators
- Increased layer thickness possible

Performance Characteristics

Technical Data

Form	Liquid
Color	Transparent
Density (@ 68 °F/20 °C)	1.36 (nominal)
pH	< 11.5
Viscosity (@ 68 °F/20 °C)	30 to 70 cP (mPa.s)
Solubility in water	Total
Thermal Stability	40 °F (5 °C)
Chloride content	< 0.1%

Guidelines for Use

Dosage: The dosage range of MasterRoc SA 430 admixture is 3 to 8 % by mass of cementitious material for most shotcrete. However, variations in the job conditions, concrete and mortar materials may require amounts outside of the normal dosage range. In such cases, contact your local sales representative for assistance. Precautions should be taken as overdosing can cause a reduction of ultimate strength.

MasterRoc SA 430 admixture is introduced with a proportioning pump into the compressed air which is added at the nozzle.

Storage and Handling

Storage Temperature: Minimum storage temperature for MasterRoc SA 430 admixture is 40 °F (4 °C). Maximum storage temperature is 140 °F (60 °C). If MasterRoc SA 430 admixture freezes, thaw at 68 °F (20 °C) or above and completely reconstitute with mild mechanical agitation. If freezing has occurred, performance tests should be carried out prior to its use. **Do not use pressurized air for agitation.**

Shelf Life: MasterRoc SA 430 admixture has a minimum shelf life of 12 months if stored in original tightly secured containers. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterRoc SA 430 admixture has been exceeded.

Safety: MasterRoc SA 430 admixture is an irritant to skin and eyes. Safety glasses and rubber gloves must be worn when handling MasterRoc SA 430 admixture.

Packaging

MasterRoc SA 430 admixture is available by bulk delivery.

Related Documents

Safety Data Sheets: MasterRoc SA 430 admixture

Additional Information

For additional information on MasterRoc SA 430 admixture or its use in developing a high-performance shotcrete mixture, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

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